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1x4 HDMI v1.3 Distribution Amplifier

User Manual

MODELS: AT-HD-V14

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Introduction

The Atlona AT-HD-V14 1x4 HDMI 1.3 Distribution Amplifier provides the most cost effective and advanced HDMI 1.3 splitter solution on the market, by which the high definition video and high quality audio can be transmitted to 4 different locations without losing quality. With built-in USB firmware update mechanism, the compatibility among countless HDMI sources and receivers can be further guaranteed. With 12 bit deep color video and high definition audio support, AT-HD-V14 is suitable for high quality A/V broadcasting, digital signage and education applications!

Features:

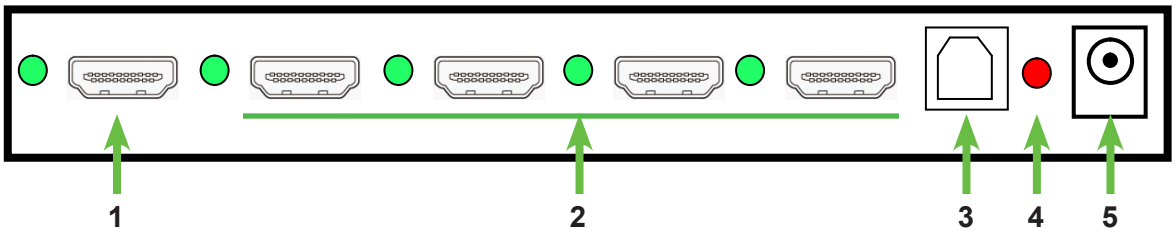
- HDMI 1.3c and DVI 1.0 compliant
- HDCP 1.2 compliant
- Wide Frequency Range: 25MHz~225MHz
- Video bandwidth: 6.75GBPS
- Supports conversion of HDMI signaling to DVI
- Resolution up to 1080p or WUXGA
- Automatic EDID learning
- Supports xvYCC
- Supports CEC (not bypassing)* ***Depends on models**
- USB firmware update for expanding compatibility
- Supports Dolby Digital, DTS-HD and Dolby True HD audio
- Easy installation

Automatic EDID learning will detect all the connected HDMI equipped monitors and analyze all the content of EDID. The EDID with minimal resolution support will be the reference EDID for incoming HDMI source players.

Specifications & Package Contents

Model Name	AT-HD-V14
Technical	
HDMI compliance	HDMI 1.3c [Deep Color, xvYCC color space supported]
DVI compliance	DVI 1.1
HDCP compliance	Yes
Video bandwidth	Single-link 225MHz [6.75Gbps]
Video support	Up to WUXGA [1920x1200@60Hz] & UXGA [1600x1200@60Hz]
Audio support	DTS-HD Master Audio, Dolby TrueHD Dolby Digital, DTS, DVD-Audio, LPCM, SACD, MPCM
ESD protection	[1] Human body model — ±15kV [air-gap discharge] & ±8kV [contact discharge] [2] Core chipset — ±2kV
PCB stack-up	4-layer board [impedance control — differential 100Ω; single 50Ω]
USB firmware updatable	YES
Input TMDS signal	1.2 Volts [peak-to-peak]
Input DDC signal	5 Volts [peak-to-peak, TTL]
Input	1x HDMI [7.1ch audio & video]
Output	4x HDMI [7.1ch audio & video]
HDMI connector	Type A [19-pin female]
Mechanical	
Housing	Metal
Dimensions (L x W x H)	Model: 180x108x27mm Package: 330x200x95mm Carton: 495 x 440 x 380mm
Weight	AT-HD-V14: 2 [lbs] / Package: 3 [lbs]
Mounting	Wall-mounting case with screws upon request
Power supply	5V 2A DC
Power consumption	4 Watts [max]
Operation temperature	0~40^{O}C [32~104^{O}F]
Storage temperature	-20~60^{O}C [-4~140^{O}F]
Relative humidity	20~90% RH [no condensation]
Package Contents	1x AT-HD-V14 1x 5V power adapter 1x User Manual

Rear Panel



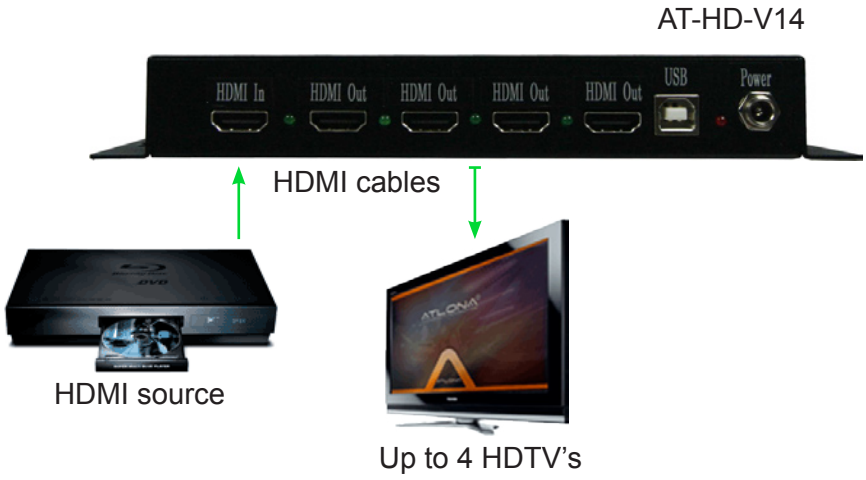
1. HDMI IN: HDMI input source
2. HDMI OUT: Distributed HDMI outputs
3. USB IN: For firmware update use only
4. Power Indicator: When powered on, the LED will blink.
5. DC IN: 5V 2A

When the connected HDMI equipped monitor is verified as HDMI and HDCP compliant, the corresponding green LED will blink.

Hardware Installation

Broadcasts HDMI signal to 4 HDMI displays!

1. Switch off all devices, including monitors.
2. Connect to the receivers.
3. Connect an HDMI source (such as a Blu-ray Disc player) to the HDMI In.
4. Plug in 5V DC power supply.
5. Power on the HDMI monitors.
6. Power on the HDMI source.



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Notice

1. While connecting a new monitor to the splitter, experiencing a short period no display may be expected. Automatic EDID learning will analyze the newly connected monitor to see if the EDID for the HDMI input is necessary to update!

2. For long range high definition HDMI transmission applications, please adopt CAT-5 cable based HDMI extenders.

Safeguards

- To reduce the risk of electric shock, do not expose this product to rain or moisture.
- If the wall plug does not fit into your local power socket, hire an electrician to replace your obsolete socket.
- Do not modify the wall plug.
  Doing so will void the warranty and safety features.
- This equipment should be installed near the socket outlet and the device should be easily accessible in case it requires disconnection.

Precautions

- FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.
- Operate this product using only the included external power supply. Use of other power supplies could impair performance, damage the product or cause fires.
- In the event of an electrostatic discharge, this device may automatically turn off. If this occurs, unplug the device, and plug it back in.
- Protect and route power cords so they will not be stepped on or pinched by anything placed on or against them. Be especially careful of plug-ins, or cord exit points from this product.
- Avoid excessive humidity, sudden temperature changes or temperature extremes.
- Keep this product away from wet locations such as bathtubs, sinks, laundries, wet basements and swimming pools.
- Use only accessories recommended by ATLONA to avoid fire, shock or other hazards.
- Unplug the product before cleaning. Use a damp cloth for cleaning. Do not use cleaning fluid or aerosols, which could enter the unit and cause damage, fire or electrical shock. Some substances may also mar the finish of the product.
- Never open or remove unit panels or make any adjustments not described in this manual. Attempting to do so could expose you to dangerous electrical shock or other hazards. It may also cause damage to your AT-HD-V14. Opening the product will void the warranty.
- Do not attempt to service the unit. Instead disconnect it and contact your Authorised ATLONA reseller or contact ATLONA directly.

WARRANTY

1. LIMITED WARRANTY

Atlona Technologies warrants that (a) its products (the "Product") will perform substantially in accordance with the accompanying written materials for a period of 3 YEARS from the date of receipt and (b) that the Product will be free from defects in materials and workmanship under normal use and service for a period of 3 years. In the event applicable law imposes any implied warranties, the implied warranty period is limited to 3 years from the date of receipt. Some jurisdictions do not allow such limitations on duration of an implied warranty, so the above limitation may not apply to Customer.

2. CUSTOMER REMEDIES

Atlona Technologies and its suppliers' entire liability and Customer's exclusive remedy shall be, at Atlona Technologies' option, either return of the price paid for the Product, or repair or replacement of the Product that does not meet this Limited Warranty and which is returned to Atlona Technologies with a copy of Customer's receipt. This Limited Warranty is void if failure of the Product has resulted from accident, abuse, or misapplication. Any replacement Product will be warranted for the remainder of the original warranty period or 3 year, whichever is longer.

3. NO OTHER WARRANTIES

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, ATLONA TECHNOLOGIES AND ITS SUPPLIERS DISCLAIM ALL OTHER WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WITH REGARD TO THE PRODUCT AND ANY RELATED WRITTEN MATERIALS. THIS LIMITED WARRANTY GIVES CUSTOMER SPECIFIC LEGAL RIGHTS. CUSTOMER MAY HAVE OTHER RIGHTS DEPENDING ON THE JURISDICTION.

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